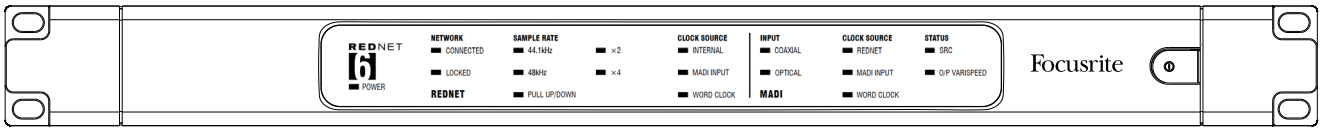
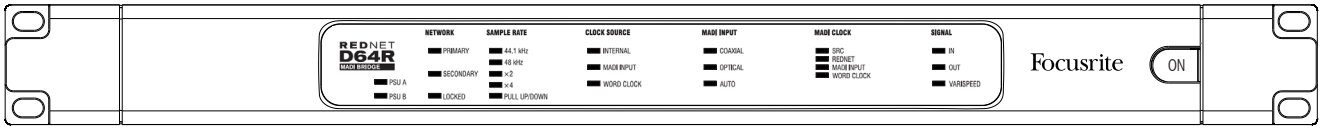
REDNET®6 REDNET D64R MADI BRIDGE

User Guide





Focusrite®

www.focusrite.com

FA9096-02

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

No naked flames, such as lighted candles, should be placed on the apparatus.

The appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Do not use a damaged or frayed power cord.

If the mains plug supplying the apparatus incorporates a fuse then it should only be replaced with a fuse of identical or lower rupture value.

GB The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

FIN Laite on liitettävä suojamaadoituskoskettimilla va rustettuumpistorasiaan

NOR Apparatet må tikoples jordet stikkontakt

SWE Apparaten skall anslutas till jordat uttag

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

ENVIRONMENTAL DECLARATION

Compliance Information Statement: Declaration of Compliance procedure

Product Identification:	Focusrite RedNet
Responsible party:	American Music and Sound
Address:	4325 Executive Drive
	Suite 300
	Southaven
	MS 38672
Telephone:	800-431-2609

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For USA

To the User:

1. **Do not modify this unit!** This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Focusrite may void your authority, granted by the FCC, to use this product.

2. **Important:** This product satisfies FCC regulations when high quality shielded cables are used to connect with other equipment. Failure to use high quality shielded cables or to follow the installation instructions within this manual may cause magnetic interference with appliances such as radios and televisions and void your FCC authorization to use this product in the USA.

3. **Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which the user will be required to correct the interference at his own expense

For Canada

To the User:

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

RoHS Notice

Focusrite Audio Engineering Limited has conformed where applicable, to the European Union's Directive 2002/95/EC on Restrictions of Hazardous Substances (RoHS) as well as the following sections of California law which refer to RoHS, namely sections 25214.10, 25214.10.2, and 58012, Health and Safety Code; Section 42475.2, Public Resources Code.

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About this User Guide

This User Guide applies to both the RedNet 6 and RedNet D64R MADI Bridge interfaces. It provides information about installing each unit and how either can be connected into your system.

All references relating to the RedNet 6 are also applicable to the RedNet D64R. In any instances where names or values differ, the screening or value for the D64R unit will be appended in square brackets, eg., "Power [PSU A]".

D64R
Any information that is relevant to only one device will be separated within a border like this.

A RedNet System User Guide is also available from the RedNet product pages of the Focusrite website. The Guide provides a detailed explanation of the RedNet system concept, that will help you achieve a thorough understanding of its capabilities. We recommend that all users, including those already experienced in digital audio networking, take the time to read through the System User Guide so that they are fully aware of all the possibilities that RedNet and its software have to offer.

Should either User Guide not provide the information you need, be sure to consult: www.focusrite.com/rednet, which contains a comprehensive collection of common technical support queries.

Box Contents

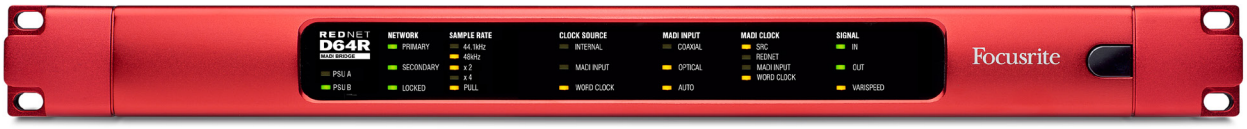
- RedNet 6 [D64R] unit
- 1 [2] x IEC AC mains cables
- 2 x IEC mains cable retaining clips *(See instructions on page 10)* *D64R only*
- 2m Cat 6 Ethernet cable *RedNet 6 only*
- Safety information cut sheet
- RedNet Getting Started Guide
- Product registration card, provides links to:
  - RedNet Control
  - RedNet PCIe drivers (included with RedNet Control download)
  - Audinate Dante Controller (installed with RedNet Control)
  - Dante Virtual Soundcard (DVS) Token and download instructions

INTRODUCTION

Thank you for purchasing the Focusrite RedNet 6/D64R.

RedNet 6

RedNet D64R



RedNet 6/D64R MADI Bridge is a 1U 19in rack-mount unit that provides an interface between any MADI (AES10) device and the RedNet Ethernet audio system.

Support for up to 64 channels of digital audio I/O at standard sample rates (44.1/48kHz) from a MADI system – 32 channels at 96kHz and 16 at 192kHz.

D64R

Dual Ethernet connectors (primary and secondary) on the rear-panel allow maximum network reliability with seamless switchover to a standby network in the unlikely event of a network failure. These ports may also be used to daisy-chain additional units when operating in Switched mode.

Redundant power supplies (PSU A and B) with separate input sockets on the rear panel allow one supply to be connected to an uninterruptible source. Each PSU's status can be monitored remotely over the network or from the front panel.

The MADI connection can use both BNC coax and standard duplex fibre interfaces.

A Sample Rate Converter (SRC) on each input and output allows instant operation with any MADI source irrespective of the sample rate or clocking of the Dante audio network.

Word Clock I/O on BNC connectors allows synchronisation of the Dante network or the MADI stream to house clock, plus syncing external equipment to the Dante network.

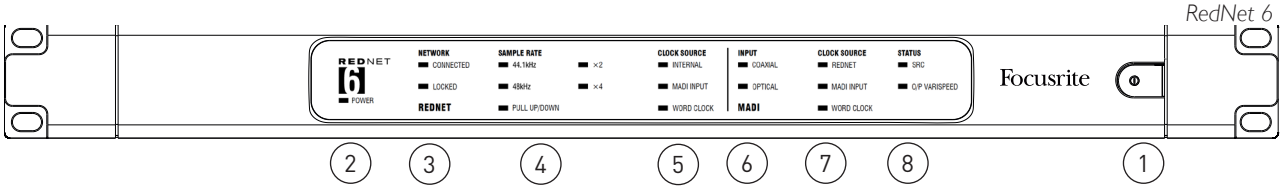
The front panel contains a set of LEDs to confirm network status, sample rate, clock sources and MADI interface settings.

INSTALLATION GUIDE

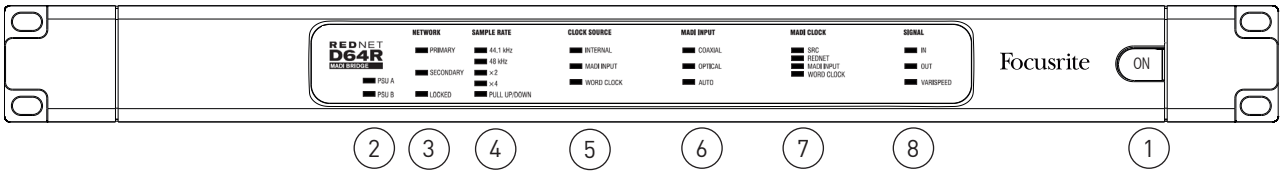
RedNet 6/D64R Connections and Features

Front Panels

RedNet 6



RedNet D64R



1. **AC Power Switch**

2. **Power Indicator(s)**

   - **Power [PSU A]** – Illuminates when an AC input is applied and all DC outputs are present.

D64R

   - **PSU B** – Illuminates when an AC input is applied and all DC outputs are present.

When both supplies are functioning and have AC inputs PSU A will be the default supply.

3. **RedNet Network Status Indicators:**

   - **CONNECTED [PRIMARY]** – Illuminates when the device is connected to an active Ethernet network. [Also illuminates to indicate network activity when operating in Switched mode.]

D64R

   - **SECONDARY** – Illuminates when the device is connected to an active Ethernet network. Not used when operating in Switched mode.
   - **LOCKED** – Illuminates when a valid sync signal is received from the network, or when the RedNet 6/D64R unit is Network Master. Flashes if external clock is selected but not connected.

4. **RedNet Sample Rate Indicators**

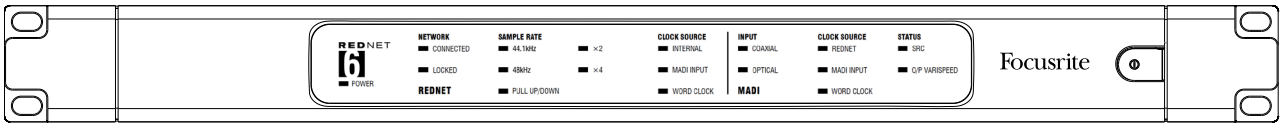
   Five orange indicators: **44.1 kHz**, **48 kHz**, **x2** (multiple of 44.1 or 48), **x4** (multiple of 44.1 or 48) and sample rate **PULL UP/DOWN**. These Indicators illuminate individually or in combination to indicate the sample rate being used. For example, for a 96kHz Pull Up/Down setting, the 48kHz, x2 and Pull Up/Down indicators will illuminate.

5. **RedNet Clock Source Indicators**

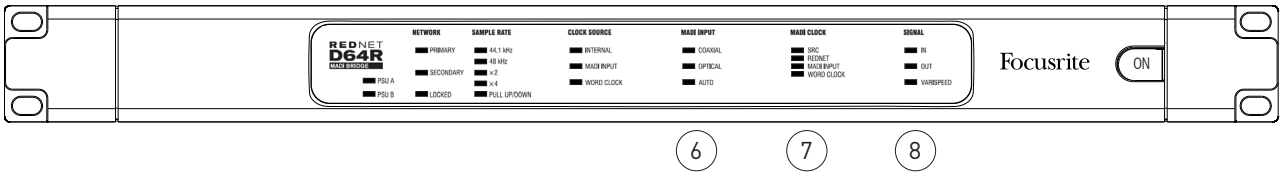
   When RedNet 6/D64R is the clock master of the Dante network, one of the following indicators will illuminate:

   - **INTERNAL** – Orange LED, indicates that unit is locked to its internal clock.
   - **MADI INPUT** – Orange LED, indicates that unit is locking to MADI input.
   - **WORD CLOCK** – Orange LED, illuminates to indicate an external Word Clock sync is in use.

RedNet 6



RedNet D64R



6. MADI Input Indicators

If a selected input signal is either invalid or not present the input source LED will flash.

- **COAXIAL** – Orange LED, indicates that Coax is the selected input, or that AUTO is selected and the BNC input is valid.
- **OPTICAL** – Orange LED, indicates that Optical is the selected input, or that AUTO is selected and the Optical input is valid.

D64R
- **AUTO** – Indicates that input selection is automatically set (Optical preferred). This LED will flash if Auto is selected but neither input (COAX or Optical) is valid.

7. Clock Source [MADI Clock]

D64R
- **SRC** – Orange LED, indicates that SRC is currently active.

- **REDNET** – Orange LED, indicates that MADI signal is using the network clock.
- **MADI INPUT** – Orange LED, indicates that MADI output clock is locked to the input rate.
- **WORD CLOCK** – Orange LED, indicates that MADI input/output is locked to the incoming word clock signal on rear panel BNC.

8. MADI Status [Signal]

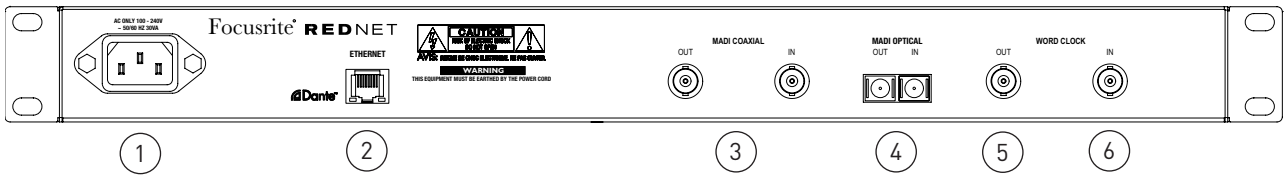
RedNet 6
- **SRC** – Orange LED, indicates that SRC is currently active.

D64R
- **INPUT** – Green LED, indicates a signal present at the selected MADI input. The LED will light if any of the channels in the input stream has a value of -42dB(fs) or higher.
- **OUTPUT** – Green LED, indicates a signal present at the selected MADI output. Illuminates as for Input signal.

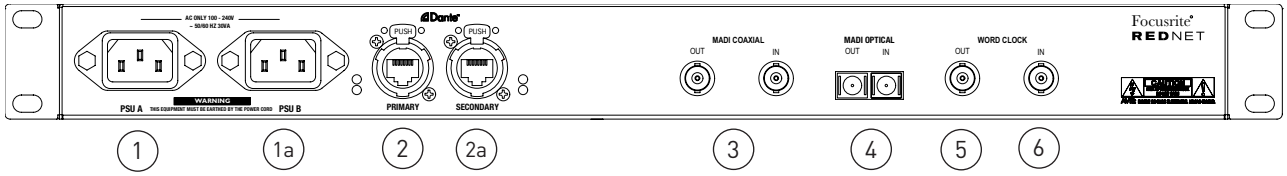
- **O/P VARISPEED [VARISPEED]** – Orange LED, indicates that the unit is running in 56-channel MADI mode. This LED will flash when either:
  a) the signal is out of MADI tolerance (beyond 1% of nominal) and the unit is NOT in 56-channel mode, or...
  b) if 'MADI follow Rx' is set and an invalid input is detected.

Rear Panels

RedNet 6



RedNet D64R



1. IEC Mains Inlet [PSU A]

Standard IEC receptacle for connection of AC mains. RedNet 6/D64Rs feature 'Universal' PSUs, enabling them to operate on any supply voltage of between 100 V and 240 V.
Note that initial use requires fitment of the plug retaining clip – see page 10.

1a IEC Mains Inlet B

D64R

Input connector for backup mains power source. Power supply B remains on standby but will seamlessly take over if PSU A develops a fault or loses its mains input supply.
If an uninterruptible supply (UPS) is available, it is recommended that this is applied to input B.

2. Network Port [Primary]

RJ45 [etherCON] connection for the Dante network. Use standard Cat 5e or Cat 6 network cables to connect to a local Ethernet switch to connect the RedNet 6/D64R to the RedNet network. Adjacent to each network socket are LEDs which illuminate to indicate a valid network connection plus network activity. *See page 17 for connector details.*

2a Secondary Network Port

D64R

Secondary Dante network connection where two independent Ethernet links are being used (Redundant mode) or an additional port on an integral network switch on the primary network (Switched mode).

3. MADI I/O – BNC Coax

Input and output BNC connectors for 75Ω coaxial cable.

4. MADI I/O – Optical

Duplex SC optical connector. Fibre standard is 62.5/125 Multimode.

5. Word Clock Out

Provides an output of the chosen system clock reference (can be switched between base rate or network rate).

6. Word Clock In

Allows synchronisation of the Dante network to house word clock.

Power Connection

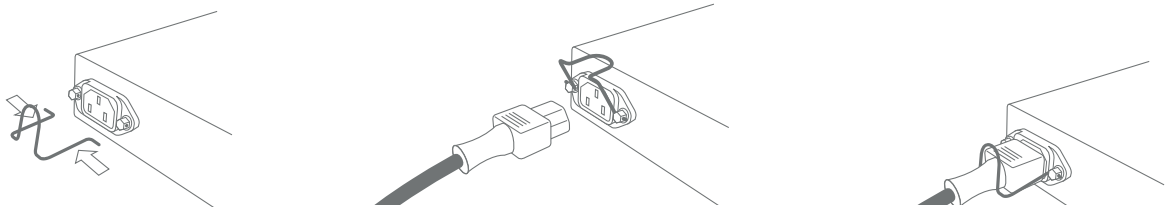
This information is only applicable to the RedNet D64R.

IEC Power Cord Retaining Clip

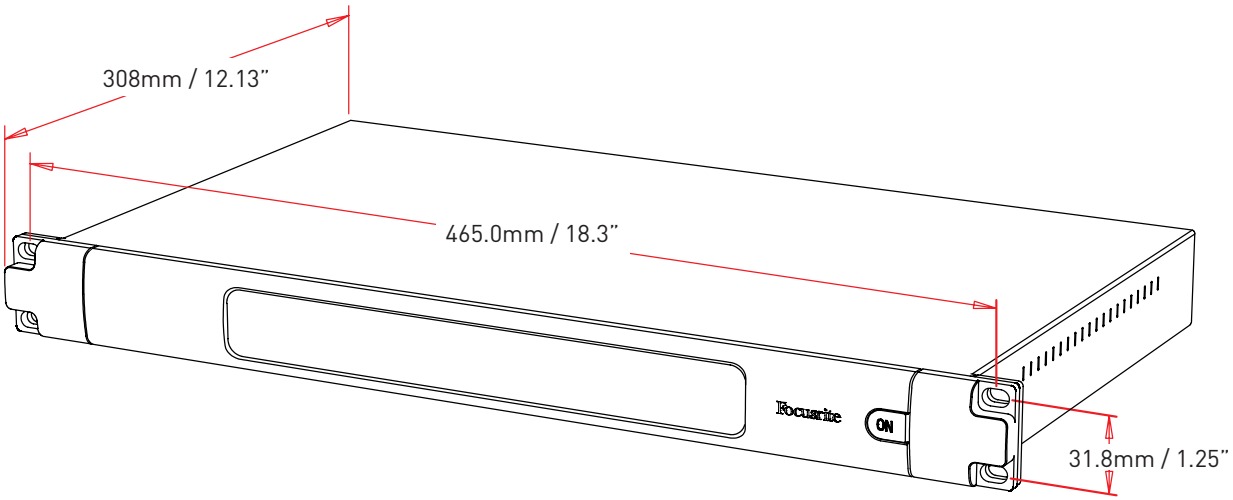
RedNet D64R is supplied with IEC power cord retaining clips. These prevents accidental disconnection of a power cord during use. When the unit is first installed, the retaining clips will need to be attached to power input sockets on the rear panel.

Insert each clip by squeezing together the legs as shown in the first image below, aligning the pins with the through-holes on the IEC fixing posts one at a time, and then releasing.

Ensure that the orientation of each clip is as shown in the other images below or the effectiveness will be compromised.



Physical Characteristics



RedNet 6/D64R dimensions are illustrated in the diagram above.

RedNet 6/D64R requires 1U of vertical rack space and at least 350 mm of rack depth, to allow for cables. RedNet 6/D64R weighs 3.74 (4.32) kg and for installations in a fixed environment (eg., a studio), the front-panel mounting screws will provide adequate support. If the units are to be used in a mobile situation (eg., flight-cased for touring, etc.), consideration should be given to using side support rails within the rack.

RedNet 6/D64R generates little significant heat and is cooled by natural convection.

Ventilation is via slots in the enclosure at both sides. Do not mount RedNet 6/D64R immediately above any other equipment which generates significant heat, for example, a power amplifier. Also, ensure that when mounted in a rack, the side vents are not obstructed.

Power Requirements

RedNet 6/D64R is mains-powered. It incorporates 'Universal' power supplies, which can operate on any AC mains voltage from 100 V to 240 V. The AC connections are made via a standard 3-pin IEC connectors on the rear panel.

D64R

When PSU A & PSU B are both connected, PSU A becomes the default supply and therefore draws more current than B. If a backup mains supply is provided from an uninterruptible source, it is recommended that this is connected to input B.

One or two mating IEC cables are supplied with the unit – these should be terminated with mains plugs of the correct type for your country.

The AC power consumption of the RedNet 6/D64R is 30VA.

Please note that there are no fuses in RedNet 6/D64R, or other user-replaceable components of any type. Please refer all servicing issues to the Customer Support Team (see "Customer Support and Unit Servicing" on page 21).

REDNET 6/D64R OPERATION

First Use and Firmware Updates

Your RedNet 6/D64R may require a firmware update* when it is first installed and switched on. Firmware updates are initiated and handled automatically by the RedNet Control application.

**It is important that the firmware update procedure is not interrupted – either by switching off power to the RedNet 6/D64R unit or the computer on which RedNet Control is running, or by disconnecting either from the network.*

From time to time Focusrite will release RedNet firmware updates within new versions of RedNet Control. We recommend keeping all RedNet units up to date with the latest firmware version supplied with each new version of RedNet Control.

Digital Clocking

RedNet 6/D64R is able to operate across two separate clock domains:

- The RedNet network clock
- The MADI audio clock

It is not necessary for these two domains to be synchronous so independent clock sources can be used. This is made possible by the use of sample rate converters in the product's audio input/output.

Three possible clock sources are available:

- Network (RedNet 6/D64R can also act as network master clock)
- MADI Input
- Word Clock Input

When sample rate conversion is enabled, the clock source of the MADI output and the RedNet 6/D64R can be selected independently in the RedNet Control application.

When sample rate conversion is disabled, the MADI output will be synchronous with the RedNet network. In this case, the selection of clock source for the unit is made under 'RedNet Clock Source' in the RedNet Control application. If MADI and the Network are to run synchronously, the following rules must be followed:

- With Network as the clock source, it is important that any device sending a MADI signal to RedNet 6/D64R is also receiving a word clock signal from the RedNet 6/D64R or another RedNet unit.
- With Word Clock In as the clock source, any device which is sending a MADI signal to RedNet 6/D64R must also receive a valid clock signal from the same source as RedNet 6

The RedNet 6/D64R Word Clock Output may be switched via the RedNet Control application to output one of four clock signals:

- Network Clock
- Network Clock (base rate)
- MADI Input
- Word Clock Input *(Note: Switchable 75 ohm termination can be selected via RedNet Control.)*

MADI Modes

RedNet 6/D64R supports both varispeed and non-varispeed MADI modes. Non-varispeed mode enables up to 64 channels I/O at 48 kHz. Varispeed mode enables up to 56 channels I/O at 48kHz. The MADI input of RedNet 6/D64R will automatically detect the channel count of incoming signals, meaning the user does not need to adjust any settings. When 'Follow Rx' (located in MADI Output menu) is set, the MADI output of RedNet 6/D64R will automatically be set to match the incoming MADI signal.

The RedNet 6/D64R MADI input select is auto-sensing by default, although manual override is provided in the RedNet Control application. When Auto mode is selected and both coaxial and optical inputs are present, RedNet 6/D64R will automatically prefer the optical input. If the optical cable is removed from the RedNet 6/D64R input, the unit will automatically switch to the coaxial input. If Auto Input is selected while no valid coaxial or optical input is present, both the optical and coaxial input indicators will flash.

The RedNet 6/D64R MADI output has three varispeed states selectable in the RedNet Control application:

- Varispeed
- Fixed
- Follow MADI input

In addition to the varispeed states the RedNet 6/D64R MADI output is capable of a range of sample rates. These can be selected in the RedNet Control application:

- Single (44.1 or 48 kHz)
- Dual (88.2 or 96 kHz)
- Quad (176.4 or 192 kHz)
- Follow MADI input

When a MADI input is present, the MADI output of RedNet 6/D64R will automatically match the MADI input.

Pull Up and Pull Down Operation

RedNet 6/D64R is able to operate at a specified pull up or pull down percentage as selected in the Dante Controller application.

When operating in 64-channel (ie. non-varispeed) mode, MADI is not capable of operating at greater than approximately ±1% of the nominal sample rate. This may become a problem when the network clock domain is pulled up beyond 1% of nominal. In this condition, the Output Varispeed indicator on the front panel will flash to indicate that the output is out of MADI tolerance. Therefore, to continue generating a valid RedNet 6/D64R MADI output, it would be necessary to operate the MADI output in 56-channel (varispeed) mode, use sample rate conversion or reduce the network rate to within 1% of nominal sample rate.

Sample Rate Converters

SRC will need to be switched in for any sources that are not using the current system clock as a reference signal.

This can be particularly useful in post-production environments where the network audio is pulled up or down, but it is necessary to have the MADI stream run at a base sample rate to interface – for example – with a mixing console.

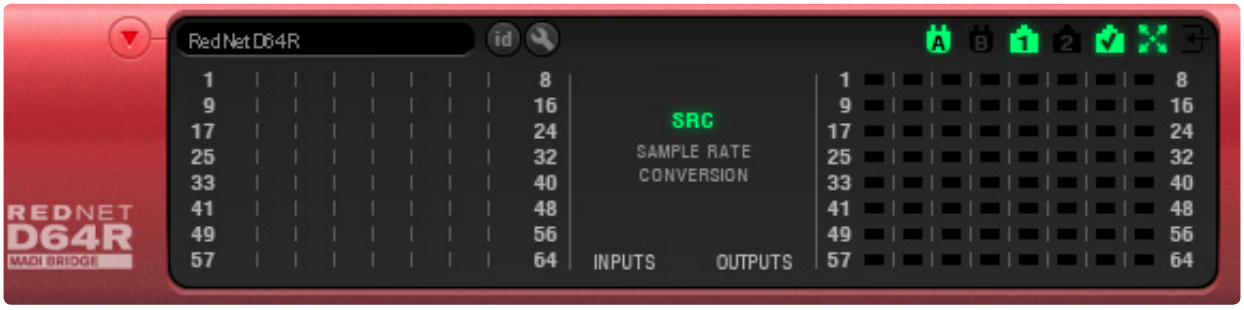
Note that engaging the sample rate converters will increase the overall latency of the device.

OTHER REDNET SYSTEM COMPONENTS

The RedNet hardware range includes various types of I/O interface and a PCIe digital audio interface card which is installed in the system's host computer. All the I/O units can be considered as "Break-Out" (and/or "Break-In") boxes to/from the network, and all are built in mains-powered, 19" rackmount housings. There are also three software items, RedNet Control (see below), Dante Controller and Dante Virtual Soundcard.

USING REDNET CONTROL

RedNet Control will reflect the status of the RedNet units present in the system, presenting an image representing each hardware unit.



The illustration above shows a RedNet D64R, with a single PSU input and a single, locked network connection, acting as the network master with the Sample Rate Converters enabled.

D64R

PSUs A & B – Each illuminates if PSU has power input and all DC outputs are present.

Network[s] – Each illuminates if a valid connection is present.

Locked – Unit is successfully locked to the network (changes to the red cross if not locked).

Network Master – Illuminated indicating that unit is the network master.

External Clock – Green: Illuminates when external clock is selected and locked.
Amber: Illuminates when external clock is selected but not locked.
Red: Illuminates when external clock is selected but not connected.

Signal Metering

Each input and output channel has a virtual signal indicator. Five different states are represented:

- Black: No signal present
- Dim green: > –126 dBFS
- Green: –42 dBFS
- Amber: –6 dBFS
- Red: 0 dBFS

- SRC: Indicates sample rate converters are active.

ID (Identification)

Clicking on the ID icon will identify the physical device being controlled by flashing its front panel LEDs.

Tools Menu

Clicking on the Tools icon will gain access to the following system settings:

MADI Input Selection – One can be selected at any time.

- Coaxial
- Optical
- Network (base rate)

SRC (Sample Rate Conversion)

- Enable – Tick option On/Off
- MADI Output Rate – One can be selected at any time.
    - Follow Rx
    - Single Rate
    - Double Rate
    - Quad Rate
- SRC Clock Source – One can be selected at any time.
    - MADI Input
    - Word Clock
    - RedNet

RedNet Clock Source – Only one can be selected at any time.

- Internal (RedNet 6/D64R is network master but running from internal clock)
- MADI input
- Word Clock

Note: When selecting any clock source, RedNet 6/D64R will become a preferred master.

Preferred Master – On/Off state.

Word Clock Output – One can be selected at any time.

- Network
- Network (base rate)
- MADI Input
- Word Clock Input

Word Clock Termination – Tick option On/Off. (Terminates word clock input BNC with 75Ω.)

MADI Output Varispeed – Only one can be selected at any time.

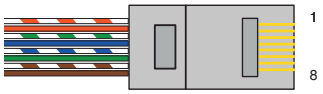
- Follow RX
- Fixed (64/32/16)
- Varispeed (56/28/14)

APPENDIX

Connector Pinouts

Ethernet Connector

Connector type: RJ-45 [etherCON] receptacle
Applies to: Ethernet (Dante)



Pin	Cat 6 Core
1	White + Orange
2	Orange
3	White + Green
4	Blue
5	White + Blue
6	Green
7	White + Brown
8	Brown

PERFORMANCE AND SPECIFICATIONS

Sample Rate Converters	
Sample Rate Lock Range	41 to 216 kHz (MADI)
Gain Error	-0.01 dB
Dynamic Range	> 139 dB (-60 dBFS method)
THD + N	< -130 dB (0.00003%); 0 dBFS input
Latency	43 to 196 samples (Network and MADI sample rate dependent)
MADI Clock Sources	RedNet, MADI Input and Word Clock

Digital Performance	
Supported Sample Rates	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz (-4% / -0.1% / +0.1% / +4.167%) at 24 bit
Clock Sources	Internal, MADI or from Dante Network Master
Ext. Word Clock Range	Nominal sample rate ±7.5%

Rear Panel Connectivity	
MADI Coaxial	
Electrical Standard	As per AES10:2008
Recommended Cable	75Ω characteristic impedance
Connector	BNC 75Ω
MADI Optical	
Optical Standard	As per AES10:2008 (ISO/IEC 9314-3, FDDI, ANSI X3.166)
Recommended Cable	Multi-mode, Graded-index, 62.5µm core, 125µm cladding
Connector	Duplex SC
Word Clock	
Input	1 x BNC 75Ω port (switchable termination)
Output	1 x BNC 75Ω port
PSU & Network	
PSU	1 [2] x IEC Inputs with retaining clips
Network	1 x RJ45 [2 x etherCON, also compatible with standard RJ45 connectors]

Front Panel Indicators	
Power [PSU A]	Green LED. Illuminates when an AC input is applied and all DC outputs are present
PSU B [D64R only]	Green LED. Illuminates when an AC input is applied and all DC outputs are present
Network Connected [Primary]	Green LED. Indicates that a network connection is present [on Primary port when in Redundant mode. When in Switched mode, a valid network connection at either Primary or Secondary network port will cause this LED to illuminate]
Network Secondary [D64R only]	Green LED. Indicates that a network connection is present on secondary port when in redundant mode. Not used in switched mode
Network Locked	Green LED. When unit is network slave, shows valid network lock. When unit is network master, shows lock to indicated clock source. Flashing indicates external clock is selected but not connected
Sample Rate	Orange LED for each: 44.1 kHz, 48 kHz, x2, x4
Pull Up/Down	Indicates unit is set to operate on a Dante pull up/down domain
RedNet Clock Source	Orange LED for each: Internal, MADI Input and Word Clock
MADI Input	Orange LED for each: Coaxial, Optical [and Auto]
MADI Clock Source	Orange LED for each: [SRC], RedNet, MADI Input and Word Clock
MADI Status [RedNet 6]	Orange LED for each: SRC & O/P Varispeed
Signal [D64R only]	2 Green LEDs: 1 input/1 output. Illuminate at -126 dBFS. Orange LED: Varispeed

Network Modes [D64R Only]	
Redundant	Allows unit to connect to two independent networks
Switched	Connects both ports to integrated network switch allowing daisy-chaining of device

Channel Count			
MADI Clock	**Rednet Clock:**		
	Single	**Double**	**Quad**
Single	64	32	16
Single – Varispeed	56	32	16
Double	32	32	16
Double – Varispeed	28	28	16
Quad	16	16	16
Quad – Varispeed	14	14	14

Dimensions	
Height	44.5mm / 1.75" (1RU)
Width	482.6mm / 19"
Depth	308mm / 12.13"

Weight	
Weight	3.74 [4.32] kg

Power	
PSU[s]	1 [2] x Internal, 100-240V, 50/60Hz, consumption 30VA

Focusrite RedNet Warranty and Service

All Focusrite products are built to the highest standards and should provide reliable performance for many years, subject to reasonable care, use, transportation and storage.

Very many of the products returned under warranty are found not to exhibit any fault at all. To avoid unnecessary inconvenience to you in terms of returning the product please contact Focusrite support.

In the event of a Manufacturing Defect becoming evident in a product within 12 months from the date of the original purchase Focusrite will ensure that the product is repaired or replaced free of charge.

A Manufacturing Defect is defined as a defect in the performance of the product as described and published by Focusrite. A Manufacturing Defect does not include damage caused by post-purchase transportation, storage or careless handling, nor damage caused by misuse.

Whilst this warranty is provided by Focusrite the warranty obligations are fulfilled by the distributor responsible for the country in which you purchased the product.

In the event that you need to contact the distributor regarding a warranty issue, or an out-of-warranty chargeable repair, please visit: www.focusrite.com/distributors

The distributor will then advise you of the appropriate procedure for resolving the warranty issue. In every case it will be necessary to provide a copy of the original invoice or store receipt to the distributor. In the event that you are unable to provide proof of purchase directly then you should contact the reseller from whom you purchased the product and attempt to obtain proof of purchase from them.

Please do note that if you purchase a Focusrite product outside your country of residence or business you will not be entitled to ask your local Focusrite distributor to honour this limited warranty, although you may request an out-of-warranty chargeable repair.

This limited warranty is offered solely to products purchased from an Authorised Focusrite Reseller (defined as a reseller which has purchased the product directly from Focusrite Audio Engineering Limited in the UK, or one of its Authorised Distributors outside the UK). This Warranty is in addition to your statutory rights in the country of purchase.

Registering Your Product

For access to Dante Virtual Soundcard, please register your product at: www.focusrite.com/register

Customer Support and Unit Servicing

You can contact our dedicated RedNet Customer Support team free of charge:

Email: rednetsupport@focusrite.com

Phone (UK): +44 (0)1494 462246

Phone (USA): +1 (310) 322-5500

Troubleshooting

If you are experiencing problems with your RedNet 6/D64R, we recommend that in the first instance, you visit our Support Answerbase at: www.focusrite.com/answerbase